

ABSTRACT OF THE DISCLOSURE

5 A medical diagnostic device for measuring an analyte
concentration or property of a biological fluid includes
capillary flow channels to convey a sample of the fluid
from an inlet to a branching point, and then to a
measurement area and, alternatively, through a bypass
channel to an overflow region. A first stop junction
stops fluid flow after it enters the measurement area.
10 The bypass channel has a capillary dimension in at least
one direction. A second stop junction, in the bypass
channel, has a boundary region that has a dimension that
is greater in that direction and forms an angle that
points toward the branching point. With this
15 construction, the second stop junction initially prevents
flow to the overflow region, but permits the flow after
the measurement area is filled. The device is
particularly suited for measuring coagulation time of
blood.
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